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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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Andreas Tagesson

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EXAMINER

NGUYEN, SIMON

ART UNIT

PAPER NUMBER

2618

MAIL DATE

DELIVERY MODE

11/06/2008

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/559,798	Applicant(s) TAGESSON ET AL.	
	Examiner SIMON D. NGUYEN	Art Unit 2618	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 02 September 2008.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-29 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-29 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 02 September 2008 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Drawings

1. The drawings were received on 9/2/08. These drawings are accepted.

Response to Amendment

2. The amendment filed on 9/2/08 under 37 CFR 1.131 has been considered but is ineffective to overcome the Boesch's reference as well the Adar's reference.

Response to Arguments

3. Applicant's arguments filed 9/2/08 have been fully considered but they are not persuasive.

According to the Applicant's Remarks, Boesch fails to teach or disclose "breaking a first connection, between a signal generating unit and a signal processing unit in response to a control signal generated by the signal generating unit when signals in a second frequency band are transmitted on a second connection".

Carefully reviewing the Boesch's and Adar's references, Examiner disagrees for the following reasons:

A- Boesch discloses breaking a first connection is that switch 422 will be opened in a case of the 800 MHz signal is transmitted, wherein switch 422 is opened, the 1900 MHz band is not coupled to the amplifier 404 which is only allowed the 800 MHz band to connect to the amplifier 414, wherein Boesch further discloses open or close of the

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switch 422, 424, 426 is controlled by a control signal generated by a microprocessor (column 6 lines 35-38, column 7 lines 21-24, 30-34, column 10 lines 27-29), wherein Boesch further discloses the signals transmitted (either the 1900 or 800 MHz bands) are modulated (column 3 lines 35-40, 45-53, column 5 lines 56-64, column 6 lines 67-69, column 8 lines 27-60), which means the transceiver inherently having a modulator along with the microprocessor as a signal generating unit, and wherein a signal processing unit is considered as the power amplifier 400 in the combination of the microprocessor to control the signals transmitted.

B- Adar discloses a breaking switch in fig.5A is controlled by a control signal for breaking or stopping on switching off a first signal band and let a second signal band to be transmitted in a power amplifier of a wireless communication device (figs. 5A, column 1 lines 4-6, column 2 lines 1-15, column 6 lines 18-25,35-55). it should be noted that Adar does not disclose about a signal generating unit, however, Adar discloses the power amplifier in the wireless phone for transmitting a multi-band signals (column 2 lines 9-150 which means the wireless phone inherently comprises a signal generating unit such as a microprocessor, a modulator to modulate the signal transmitted.

In conclusion, Boesch and Adar, individually discloses "breaking a first connection, between a signal generating unit and a signal processing unit in response to a control signal generated by the signal generating unit when signals in a second frequency band are transmitted on a second connection".

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 14, 16, 17, 22, 23, and 27 are rejected under 35 U.S.C. 102(b) as being anticipated by Boesch et al. (6,188,877).

Regarding claims 14, 16, 17, 22, 23, and 27, Boesch discloses a multi-band amplifier in a transmitter (abstract, fig. 7), comprising: transmitting a 800 MHz signal band in a first connection to a signal processing unit (power amplifier (combined 702, 212, 414, 604); transmitting a 1900 MHz signal band in a second connection to a power amplifier; breaking the second connection to allow only the 800 MHz signal band to connect to the power amplifier by closing switch 724 and opening switches 722, 724 or connecting to the 19 MHz signal band by closing switch 722 and opening switches 724, 726, wherein the transmission signals are modulated which means the transmitter inherently comprises a modulator (figs. 4, 7, abstract, column 3 lines 35-40, 45-53, column 5 lines 56-64, column 6 lines 35-38, 62-67, column 7 lines 21-24, 30-34, column 8 lines 27-60, column 10 lines 30-67).

6. Claims 14-29 are rejected under 35 U.S.C. 102(b) as being anticipated by Adar (5,774,017).

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Regarding claim 14, Adar discloses a multi-band amplifier in a transmitter (column 1 lines 4-6, fig. 5A, abstract), comprising: transmitting a 800 MHz signal band in a first connection to a signal processing unit (power amplifier (152); transmitting a 1900 MHz signal band in a second connection to a power amplifier; breaking the second connection to allow only the 800 MHz signal band to connect to the power amplifier by turning off switch 192 or vice versa (fig. 5A, column 1 lines 4-6, column 2 lines 1-15, column 6 lines 8-25, 35-55, column 9 lines 57-62). It should be noted that a signal generating unit or a modulator is inherently in a transmitter.

Regarding claims 16, this claim is rejected for the same reason as set forth in claim 14, wherein the PA receives either the 800 MHz or 1900 MHz signal bands.

Regarding claim 17, this claim is rejected for the same reason as set forth in claim 14.

Regarding claims 22, 23, and 27, these claims are rejected for the same reason as set forth in claim 14.

Regarding claims 15, 18, Adar discloses one signal band connected to the PA and another signal band is blocked by controlling switches 190, 192 with a control signal (column 9 lines 57-62, column 6 line 40, abstract).

Regarding claim 19 Adar further discloses RF switches (190, 192) for connecting/disconnecting either one of the two-transmission signals (fig. 5A).

Regarding claim 20, Adar discloses different modulation techniques for 800MHz and 1900 MHz (column 1 lines 46-54), which means the transmitter inherently comprises a modulator for generating the 800 or 1900 MHz signal bands).

Regarding claim 21, Adar further discloses the signal processing unit as a PA (fig. 5A, column 4 line 50).

Regarding claims 24-26, Adar further discloses the system can be applied in a cellular phone, a base station (column 2 lines 1-32, column 6 lines 28-35).

Regarding claim 28-29, Adar further discloses the devices used in EGSM and DCS bands (column 1 line 17 to column 2 line 15).

Conclusion

7. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Simon Nguyen whose telephone number is (571) 272-7894. The examiner can normally be reached on Monday-Friday from 7:00 AM to 6:00PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duc Nguyen, can be reached on (571) 272-7503. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

November 4, 2008

/SIMON D NGUYEN/
Primary Examiner, Art Unit 2618